

METHOD FOR ASSAYING COMPOUNDS AFFECTING CELL DIVISION USING ESTROGEN RECEPTOR BETA (ERβ) AND MITOSIS ARREST DEFICIENT 2 (MAD2)

Michael E. Mendelsohn Filing Date: July 13, 1999

Page 1 of 5

Customer No.: 21559

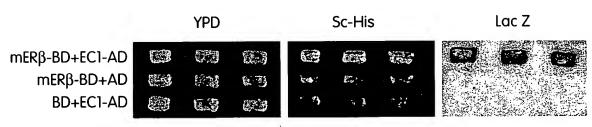


Fig. 1A

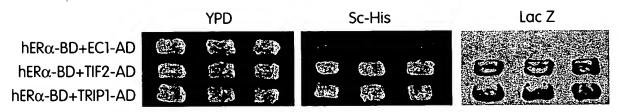


Fig. 1B



METHOD FOR ASSAYING COMPOUNDS AFFECTING CELL DIVISION USING ESTROGEN RECEPTOR BETA (ERB) AND N

Michael E. Mendelsohn Filing Date: July 13, 1999 Page 2 of 5 Customer No.: 21559

EC1.txt	1:CGGGAGCAAGGCATCACCTTGCGCGGGAGCCCCGAGATCGTG	42
mad2.txt	1:ATGGCGCTGCAGCTCTCCCGGGAGCAGGGAATCACCCTGCGCGGGAGCGCCGAAATCGTG	60
	****** ** ***** ********* *****	
EC1.txt	43:GCCGAGTTCTTCTCATTTGGTATCAACAGTATTTTATATCAGCGTGGCATATATCCATCG	102
mad2.txt	61:GCCGAGTTCTTCTCATTCGGCATCAACAGCATTTTATATCAGCGTGGCATATATCCATCT	120
	************	
EC1.txt	103:GAAACCTTTACTCGAGTGCAGAAATATGGACTCACCTTGCTTG	162
mad2.txt	121:GAAACCTTTACTCGAGTGCAGAAATACGGACTCACCTTGCTTG	180
	************	
EC1.txt	163:CTCATAAAATACCTAAATAATGTGGTGGATCAACTAAAAGAATGGTTATACAAGTGTTCA	
mad2.txt	181:CTCATAAAATACCTAAATAATGTGGTGGAACAACTGAAAGATTGGTTATACAAGTGTTCA	240
	****************	
EC1.txt	223:GTTCAGAAACTGGTGGTAGTCATCTCAAATATTGAAAGTGGAGAGGTCCTTGAAAGATGG	
mad2.txt	241:GTTCAGAAACTGGTTGTAGTTATCTCAAATATTGAAAGTGGTGAGGTCCTGGAAAGATGG	300
	******** **** **** *****	
EC1.txt	283: CAGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAAGTCT	
mad2.txt	301: CAGTTTGATATTGAGTGTGACAAGACTGCAAAAGATGACAGTGCACCCAGAGAAAAAGTCT	360
	**************	
EC1.txt	343: CAGAAAGCTATCCAAGATGAAATCCGTTCAGTGATCAGACAGA	
mad2.txt	361: CAGAAAGCTATCCAGGATGAAATCCGTTCAGTGATCAGACAGA	420
	********** ***** *****	
EC1.txt	403: TTTCTGCCACTGTTGGAAGTTTCTTGTTCATTTGATCTCCTCATTTATACAGACAAAGAT	
mad2.txt	421:TTTCTGCCACTGTTGGAAGTTTCTTGTTCATTTGATCTGCTGATTTATACAGACAAAGAT	480
	***********	
EC1.txt	463: CTGGTTGTNCCTGAGAAATGGGAAGA-TCNGGACCACAGTTCATTACCAATTCTGAAGAA	
mad2.txt	481:TTGGTTGTACCTGAAAAATGGGAAGAGTCGGGACCACAGTTTATTACCAATTCTGAGGAA ****** **** *********************	540
EC1.txt	522:GTTCGTCTTCGTTCACTACTACAATTCACAAAGTAAATAGCATGGTAGCCTACAAA	581
mad2.txt	541:GTGCGCCTTCGTTCATTTACTACTACAATCCACAAAGTAAATAGCATGGTGGCCTACAAA	600
	** ** ******* ****** ****** ********	
EC1.txt	582: ATTCCTGTCCATGACTGA	599
mad2.txt	601:ATTCCTGTCAATGACTGA	618
	****** ***	



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Michael E. Mendelsohn Filing Date: July 13, 1999 Page 3 of 5 Customer No.: 21559

1 REQGITLPGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDPELIKYLN EC-1: REQGITL GSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTD ELIKYLN 7 REQGITLRGSAEIVAEFFSFGINSILYQRGIYPSETFTRVQKYGLTLLVTTDLELIKYLN 66 hsMAD2: 61 NVVDQLKEWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPRQKSQKAIQD 120 EC-1:  ${\tt NVV+QLK+WLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPR+KSQKAIQD}$ hsmad2: 67 NVVEQLKDWLYKCSVQKLVVVISNIESGEVLERWQFDIECDKTAKDDSAPREKSQKAIQD 126 121 EIRSVIRHITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEXSGPQFITNSEELRLRSF 180 EC-1: EIRSVIR ITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWE SGPQFITNSEE+RLRSF hsMAD2: 127 EIRSVIRQITATVTFLPLLEVSCSFDLLIYTDKDLVVPEKWEESGPQFITNSEEVRLRSF 186 EC-1: 181 TTTIHKVNSMVAYKIPVHD 199 TTTIHKVNSMVAYKIPV+D hsMAD2: 187 TTTIHKVNSMVAYKIPVND 205

Fig. 2B

METHOD FOR ASSAYING COMPOUNDS AFFECTING CELL DIVISION USING ESTROGEN RECEPTOR BETA (ERB) AND MITOSIS ARREST DEFICIENT 2 (MAD2)

Michael E. Mendelsohn Filing Date: July 13, 1999

Page 4 of 5 Customer No.: 21559

10170						
JAN 0 5 2005		Ва	mHI Smal			
mERβ 1-1458	A/B	С		D	E	F
mERβ [] 1-622 [		·	516-622			
mERβ 516-1458 mERβ			7			
1-516 L mERβ			_ 			

Fig. 3A

BD	AD	HIS	$\beta extsf{-} extsf{Gal}$
EC1	/-	-	
EC1	/AD	-	-
EC1	$/\mathtt{mER}\beta516-1458$	+	+
EC1	$/\mathtt{mER}eta$	+	+
BD	$/\mathtt{mER}\beta516-1458$	-	-
$\mathtt{mER}lpha$	$/mER\beta516-1458$	+	+
mERβ1-622	/EC1	+	+
mERβ1-516	/EC1	-	-
mERβ1 516-641	/EC1		
mERβ1-622	/AD	-	-
mERβ1-516	/AD	-	_
mERβ	/EC1	+	+
BD	/EC1	-	-

Fig. 3B



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Michael E. Mendelsohn Filing Date: July 13, 1999 Page 5 of 5 Customer No.: 21559

